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9. (As Amended) The security gateway apparatus according to [any one of claims 6 through 8] claim 6, wherein an encryption key and an authentication key are exchanged with a public key cryptosystem during the IKE communication.

10. (As Amended) The security gateway apparatus according to [any one of claims 6 through 8] claim 6, wherein the DHCP communication option contains an IP address and a subnet mask.

- 11. (Newly Added) The VPN communication method for the security gateway apparatus according to claim 2, wherein an encryption key and an authentication key are exchanged with a public key cryptosystem during the IKE communication.
- 12. (Newly Added) The VPN communication method for the security gateway apparatus according to claim 3, wherein an encryption key and an authentication key are exchanged with a public key cryptosystem during the IKE communication.
- 13. (Newly Added) The VPN communication method for the security gateway apparatus according to claim 2, wherein the DHCP communication option contains an IP address and a subnet mask.
- 14. (Newly Added) The VPN communication method for the security gateway apparatus according to claim 2, wherein the DHCP communication option contains an IP address and a subnet mask.
- 1 15. (Newly Added) The security gateway apparatus according to claim 7, 2 wherein an encryption key and an authentication key are exchanged with a public 3 key cryptosystem during the IKE communication.

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- 16. (Newly Added) The security gateway apparatus according to claim 8, wherein an encryption key and an authentication key are exchanged with a public key cryptosystem during the IKE communication.
- 1 17. (Newly Added) The security gateway apparatus according to claim 7, 2 wherein the DHCP communication option contains an IP address and a subnet 3 mask.
 - 18. (Newly Added) The security gateway apparatus according to claim 8, wherein the DHCP communication option contains an IP address and a subnet mask.

Respectfully Submitted

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Kathleen Libby